

STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI ENERGY CENTER

2004 MoALP Appl: 06/04

MISSOURI ANEMOMETER LOAN PROGRAM APPLICATION

The Missouri Department of Natural Resources' Anemometer Loan Program is made possible through the U.S. Department of Energy's "Wind Powering America" initiative. To participate in the program, please follow the instructions below. Completion of the application does not guarantee the loan of an anemometer.

- **Evaluation Criteria:** Applications will be evaluated using the following criteria:
 - 1. Wind resource potential at the proposed site.
 - 2. Landowner interest in a wind energy development project.
 - Proximity to other wind energy data collection stations.
 - Geographic dispersion throughout Missouri.
 - 5. Community outreach.
- Instructions:
 - 1. Read the Missouri Anemometer Loan Program Description.
 - Complete this form. (Attach additional pages as necessary. Be sure applicant's name is on all additional pages.)
 - 3. Attach topographic map per Section F.
 - Sign Application (Section I) and mail.

	5. Applications for the 2004 loan cycle must be postmarked on or before August 10, 2004.					
C.	Intentions: Describe the purpose and goal of the project for which the anemometer is being requested (e.g. on-site energy use, small scale wind system, renewable energy demonstration, energy export - large commercial scale wind system, agricultural irrigation, etc.). It you are considering a large or commercial-scale wind farm, please provide a business plan for the proposed project. (Attach additional sheets as necessary.)					
E.	Community Outreach: Describe plans for community involvement, educational programs, or other partnerships that the landowner/applicant will conduct related to wind energy that involves the anemometer and resulting meteorological data. (Attach additional sheets as necessary.)					
	Load: Describe the electric load to be served by wind turbines (if installed). Please describe the load both qualitatively (e.g. residences, education institution, business/industry, water plant, wind farm) and, if possible, quantitatively (i.e. number of kilowatt-hours per day). Do you anticipate connecting the turbines to the electric grid? (Attach additional sheets as necessary.)					

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view	bosed site. Obtain a topographic map of the property where ed and the relevant portion accessed and printed at no cost of tech MapServer	e you would like to install an anemometer. Iopographic maps can be on-line. Some free sites are listed below: http://mapserver.maptech.com/homepage/index.cfm					
	University of Missouri-Columbia CARES http://maproom.missouri.edu/ (Center for Agricultural, Resources and Environmental Systems)						
Terra	aserver	http://terraserver-usa.com					
It is reco	ommended that a scale of approximately 1:24,000 be used	l when printing maps from the Internet.					
	Paper topographic maps can be purch	nased from several sources including:					
Missouri Department of Natural Resources Phone: (573) 368-2125							
	ological Survey and Resource Assessment Division ps and Publications	Fax: (573) 368-2481					
). Box 250, Rolla, MO 65402-0250	E-mail: gsradpubs@dnr.state.mo.us					
	On a topographic map, or a photocopy of the relevant portion of a 'topo' map, write the landowner applicant's name and phone number, and make the following notations:						
	. Place a bold "X" at the proposed location for the tower.						
	(Note: To assemble and raise tower, the site must have an area free of trees, shrubs and other structures at least 110 feet long and 85 feet wide. When installed, the tower will be in the center of an "X" formed by two lines 84 feet long.)						
	b. Draw approximate boundary of the landowner's property.						
	c. Write the distance, in feet, from the proposed site to the	nearest man-made structure.					
	d. Label the location of any electric power lines, and buried utilities.						
	e. Label any areas on the owner's property that are exclude	ed from consideration.					
	f. Write the legal description of the proposed site (township, range and section number or numbers,) here and on the map.						
!	g. If proposed site is not within a city or town, state the nearest community, approximate distance in miles and which direction the site is from that community (e.g.: North, Southwest, West northwest, etc.)						
	h. If your map is obtained from an Internet site, and it provides site coordinate data, please record the coordinates, and the letters 'I-NET' in the upper right margin of the map. If a geographic positioning system (GPS) instrument is available, please record the coordinates of the proposed tower in the upper right margin of the map and the letters 'GPS'.						
2.	Will grazing animals be present during the time the tower will	be in place? (Check one)					
	☐ YES ☐ NO						
	the tower and all 4 anchors be enclosed with an animal-proof fence. If the guy anchors with a solar powered electric fence. This fence will fith of an acre. Where an electric fence is used to keep out grazing animals grass and trimming other vegetation that may short out the electric						
	3. In the following table, provide a description of the site proposed for the anemometer tower, describing features within 500 feet, including: 1) land contours, 2) structures, and 3) tress that a person standing on the proposed site would see when facing to the north, east, south and west. Note changes in land elevation, height of and distance to the structures and trees.						
	LAND CONTOURS						
Looking North	STRUCTURES						
<u> </u>	TREES						
	LAND CONTOURS						
Looking East	STRUCTURES						
Log	TREES						

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	LAND CONTOURS									
Looking South	STRUCTURES									
ച് ശ	TREES									
	LAND CONTOURS									
Looking West	STRUCTURES	TRUCTURES								
Po ×	TREES	REES								
Applicatio	Applications without a topographical map and description of the proposed site will not be accepted.									
4. Ask local government officials about potential legal obstacles to installing a wind system. For example, some jurisdictions restrict the height of structures permitted in residentially zoned areas, although variances may be obtainable. Your city, county or regional planning commission may have this information. Ask if they will require a conditional use permit for the 66-foot tower used with the anemometer.										
Is			r on your property? (Che	eck one)						
		NO								
			ite depends on the soil t describes the soil and			of the two rows below,				
Depth to	bedrock	☐ 1) Over 5 feet	☐ 2) 3 to 5 feet	\square 3) Less than 3 feet	☐ 4) Bare rock	☐ 5) Unknown				
Soil / su	ıbsurface	a) Fine texture	☐ b) Sandy	☐ c) Soil/gravel mix	☐ d) Loose gravel	☐ e) Solid Rock				
of distr tributio	formation Sharing Disclosure: All data gathered will be in the public domain. Data, including exact location, elevation and noramic photos to be taken at the site, may be made available via the Department of Natural Resources' Web site and other means distribution. It will also be provided to the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) for general dispution including via NREL's Web site. Stallation and Maintenance: Installation will be performed under the guidance of a department employee. The landowner/applicant is sponsible for monthly inspections of the tower, cable tension and fencing, if applicable. Exchange of the data plugs must also be done a monthly basis. Do you anticipate delegating the responsibility for monitoring the equipment and replacing the data plugs to a									
	ated contact	-	oregaining the responsible	mty for morntoning the	очиртот или горгаот	ig the data plage to a				
Check			person							
			other than the Landowne							
CONTACT PE	ERSON'S FIRST NAME		CONTACT PERSON'S LAST NAME							
ADDRESS										
CITY			STATE	ZIP CODE	ZIP CODE					
HOME PHON	E NUMBER		WORK PHONE NUMBER		ELL PHONE NUMBER (IF APPLICABLE)					
E-MAIL ADDRESS (PLEASE PRINT)										

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I. LANDOWNER/APPLICANT'S CONTACT IN	NFORMATION						
FIRST NAME	LAST NAME						
ADDRESS							
CITY		STATE		ZIP CODE			
CITT		SIAIE		ZIF GODE			
HOME PHONE NUMBER	WORK PHONE NUMBER		CELL PHONE	NUMBER (IF APPLICABLE)			
E-MAIL ADDRESS (PLEASE PRINT)							
I have read the Missouri Anemometer Lo.	an Program Description	(Form MOALP Descrip	otion 3-03) ar	nd this application.			
I affirm that I am the owner of the propert	ty where the anemomete	er tower is proposed by	this applica	tion.			
I understand that the anemometer and 66	S foot tower is to be one	rational for at least 10 r	months and i	f mutually agreed to may be on my			
property for as long as 26 months.	o look tower to to be ope	rational for at loadt 10 i	nontrio and i	i mataany agreed to may be on my			
	h		-t :	aved I will posed to provide there			
 I understand that if my application for t able-bodied persons to assist when raisir 							
		_		·			
I also understand that if this application re	sults in the loan of an ar	nemometer, it will be su	bject to the to	erms of a property loan agreement.			
Applications for the 2004 loan cycle must	be postmarked on or be	efore August 10, 2004.					
Equipment installations will be conducted	during the fall of 2004						
Equipment instantations will be contacted	during the fair of 200 f.						
LANDOWNER/APPLICANT SIGNATURE				DATE			
LANDOWNEN/AFFEIGANT SIGNATURE				DATE			
Mail the application, topographic map and any	/ additional pages to:						
Missouri Department of Natural Resources							
Outreach and Assistance Center – Energy Ce	enter						
Attn: Rick Anderson							
1659A East Elm Street							
Jefferson City, MO 65101							
If you have questions please contact Rick And	derson at 1-800-361-482	27 or (573) 751-3443.					

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